

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-016281**Date Inspected:** 08-Aug-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Guo Yan Fei, Chen Shi Gang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Umesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

BAY # 09, OBG DECK PALTE (NWIT # 06356)

This QA inspector performed Ultrasonic Testing (UT) of approximately 10% of an area that has been previously tested and accepted by ZPMC Quality Control (QC) personnel. This QA Inspector has generated UT report for this date. The member(s) are identified as OBG components. The weld designations reviewed are as follows:

DP3158-001-282, 285, 274, 277

DP3174-001-182, 185, 190, 193, 198, 201, 206, 209, 222, 225, 230, 233, 238, 241, 246, 249

This Quality Assurance (QA) Inspector observed the following work in progress:

Bay # 09, OBG DECK PLATE

During random in process inspection this QA inspector observed that ZPMC NDT personnel Mr. Liu Zhang Min was performing Magnetic Particle Testing (MT) on the weld joints of continuity plate of U-rib of OBG deck plate. The members are identified as OBG components and the weld designations reviewed are as follows.

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DP3171-001

DP3158-001-266~269, 258~261

BAY 09, Continuity Plate of U-rib

FCAW welding of weld joint 052 located on DP3175-001.

Welder is identified as 201840. ZPMC CWI is identified as Mr. Chen Shi Gang.

The welding variables recorded by QC appeared to comply with WPS-B-T-2233-Tc-U4b-F.

FCAW welding of weld joint 112 located on DP3175-001.

Welder is identified as 059403. ZPMC CWI is identified as Mr. Chen Shi Gang.

The welding variables recorded by QC appeared to comply with WPS-B-T-2233-Tc-U4b-F.

FCAW welding of weld joint 156 located on DP3175-001.

Welder is identified as 059416. ZPMC CWI is identified as Mr. Guo Yan Fei.

The welding variables recorded by QC appeared to comply with WPS-B-T-2233-Tc-U4b-F.

FCAW welding of weld joint 208 located on DP3175-001.

Welder is identified as 201788. ZPMC CWI is identified as Mr. Guo Yan Fei.

The welding variables recorded by QC appeared to comply with WPS-B-T-2233-Tc-U4b-F.

FCAW welding of weld joint 278 located on DP3175-001.

Welder is identified as 062265. ZPMC CWI is identified as Mr. Guo Yan Fei.

The welding variables recorded by QC appeared to comply with WPS-B-T-2233-Tc-U4b-F.

FCAW welding of weld joint 054 located on DP3175-001.

Welder is identified as 201840. ZPMC CWI is identified as Mr. Chen Shi Gang.

The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

FCAW welding of weld joint 114 located on DP3175-001.

Welder is identified as 059403. ZPMC CWI is identified as Mr. Chen Shi Gang.

The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

FCAW welding of weld joint 158 located on DP3175-001.

Welder is identified as 059416. ZPMC CWI is identified as Mr. Guo Yan Fei.

The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

FCAW welding of weld joint 208 located on DP3175-001.

Welder is identified as 201788. ZPMC CWI is identified as Mr. Guo Yan Fei.

The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

FCAW welding of weld joint 280 located on DP3175-001.

Welder is identified as 062265. ZPMC CWI is identified as Mr. Guo Yan Fei.

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The welding variables recorded by QC appeared to comply with WPS-B-T-2133.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang : 15000422372, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Gaikwad,Umesh	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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